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Non-primate EIAV-based lentiviral vectors as gene delivery syst for motor neuron diseases.

Azzouz M, Mazarakis N.

Oxford BioMedica (UK) Ltd, The Oxford Science Park, Medawar Centre, O: OX4 4GA, UK. m.azzouz@oxfordbiomedica.co.uk

Motor neuron diseases such as amyotrophic lateral sclerosis (ALS) and spina muscular atrophy (SMA) are neurodegenerative diseases, which cause progre paralysis and premature death in affected adults and children. The treatment rational for these diseases is to halt or delay the degeneration of motor neuro to date there are no effective drugs. This may however change with recent advances in gene therapy using lentiviral vectors. These vectors can transfer to motor neurons with high efficiency and give long term expression. One of vector systems, based on the equine infectious anaemia virus (EIAV), can ins genes into the cells of the central nervous system after remote delivery incluc delivery into the muscle by exploiting retrograde transport pathways. This op up the exciting possibility of rescuing the denervation of key muscle groups i patients by simple injections of these neurotropic lentiviral vectors into the n This review will describe the general features of lentiviral vectors derived fr EIAV. It will then describe some key examples of gene transfer and genetic correction in animal models of motor neuron disease. The prospects for the c evaluation of lentiviral vectors for the treatment of human motor neuron dise will be outlined.

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EIAV, CAEV and other lentivirus vector systems.

Olsen JC.

Cystic Fibrosis/Pulmonary Research and Treatment Center, University of No Carolina, Chapel Hill, North Carolina 27599, USA.

Lentiviruses that infect non-primates make up a diverse collection of viruses. Although these viruses have some features in common with HIV and other p viruses, differences in genome organization and viral gene function have ma successful derivation of vectors from non-primate lentiviruses unpredictable. Chapter discusses the construction and application of gene transfer systems derived from four non-primate lentiviruses including equine infectious anem virus (EIAV), caprine arthritis encephalitis virus (CAEV), visna virus, and Jembrana disease virus (JDV).

Publication Types:

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